

#### Academy Your GMP/GDP Information Source

### Speakers



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GMP Certification Programme Certified Computer Validation Manager

# Computerised System Validation - Introduction to Risk Management - The GAMP® 5 Approach

6 May 2025 and 7-9 May 2025, Vienna, Austria



Learn How to Plan, Implement and Document Effectively Computer Validation Activities

### Highlights

- The new GAMP<sup>®</sup> 5 Second Edition
- The EU GMP Guide Annex 11
- 21 CFR Part 11
- The GAMP<sup>®</sup> 5 Lifecycle
  - Software Categorisation
    - Specifications
  - Verification / Testing
- Practical Risk Management ICH Q9 and FMEA Methodology
- Validation Planning
- Change Control & Test Incident Management
- Validation Documentation
- Presentation to Inspectors
- Data Integrity Considerations for CSV
- Up to 10 Workshops / Interactive Sessions

## Objectives

- Get to know the current risk management approaches of ICH Q9 and GAMP<sup>®</sup> 5 2nd Edition
- Become familiar with the use of the latest methods and tools for risk analysis when validating computerised systems
- Learn how the activities involved in the validation of computerised systems can be controlled efficiently by means of risk management
- In 3 workshops you can see how these procedures are applicable

## Background

Current GMP regulations and guidelines (EU-GMP Guide Annex 11 'Computerised Systems', ICH Q9, GAMP<sup>®</sup> 5 2nd Edition, ASTM E2500-20) focus more and more on the topic of risk management. However, the regulations do not offer much concrete advice on how their principles should be translated into practice during the validation and operation of computerised systems. Therefore, it is the aim of this course to provide you with practice-oriented guidance in performing this task.

## **Target Audience**

This Training is directed at employees from Production, Quality Control / Quality Assurance, Engineering, IT who have to deal with risk assessment and risk management in the field of computerised system validation.

### Programme

Introduction – What Do You Want From This Day?

- Capturing delegates expectations
- Sharing and reducing to key points in groups
- Sharing with all delegates and tutors

#### An Introduction to Risk Management (Including ICH Q9)

- Definition of "Quality Risk Management"
- Principles of Quality Risk Management
- Application of the principles in validation
- Methods of assessing and controlling risk
- Regulatory expectations for risk management

#### Risk Management the GAMP<sup>®</sup> 5 Way

- The importance of Risk-based Decision Making
- How the GAMP 5 Risk Management Approach aligns with ICH Q9
- The 5-Steps you will need to follow described in detail
- Risk Management throughout the System Lifecycle
- Short workshop on Risk Identification and Risk Analysis

#### Risk Assessment the GAMP<sup>®</sup> 5 Way

- The simple GAMP<sup>®</sup> 5 Risk Assessment Method
- Assessment Scales for computerised systems that work
- Functional Risk Assessments and Risk Reduction Strategies
- Using risk to determine Test Rigour

# Workshop: Risk Management Applied to a Computerised System

- High Level and System Risk Assessment
- Evaluating identified risks
- Controls to mitigate unacceptable risks

#### Workshop: Functional Risk Assessment Applied to a Control System

- How to document a FRA
- Classification of risks into H, M, L
- What are the conclusions from the risk assessment?
- What options do you have to mitigate (reduce) the higher risks?
- Using the output to determine verification tasks

#### An Introduction to Risk Ranking

- What is risk ranking?
- How is it carried out?
- How is it documented?
- A few useful applications

# Workshop: Applying Risk Ranking to Determine System Remediation Priorities

- How is severity determined?
- How can scales be created?
- Ranking the risks
- Developing a risk-based action plan

### Your Benefits

#### Internationally Acknowledged Certificate from ECA Academy

The EU GMP Guide requires: "... All personnel should be aware of the principles of Good Manufacturing Practice that affect them and receive initial and continuing training,...". This is why you receive an acknowledged participant certificate, which lists the contents of the course in detail and with which you document your training.

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## This Training Course is recognized for the GMP/GDP Certification Scheme

Building on your education the ECA GMP/GDP certification programmes provide you with the appro-

piate supplement to acquire this qualification. This training course is the first element for your additional certification. Simply choose any three courses within the programme according to your professional interest. Your certificate is then valid for two years. To renew it, you can pick any training from the ECA courses and conferences list within that two-years period – allowing you to broaden your knowledge in GMP and GDP compliance. Please find more information at www.gmp-certification.org

## Objectives

Why you should attend this training:

- You will systematically be introduced to the principles and methods of the validation of computerised systems (according to GAMP<sup>®</sup>)
- You will learn the skills to plan, implement and document effectively validation activities for computerised systems and to assess them with respect to their GxP compliance
- In workshops / interactive sessions you can see how the theoretical foundations will apply practicable

## Background

Computerised systems are a central factor determining work sequences in the pharmaceutical industry. Their use increases product safety and saves time and costs of manual intervention. This creates the requirement and necessity, however, to validate all computerised systems which can influence the quality of pharmaceutical products.

The basis of the Training will be the current requirements for the validation of computerised systems like GAMP<sup>®</sup> and their GxP-oriented application in practice.

Experts from the pharmaceutical industry and from the GAMP<sup>®</sup> Committee will show you efficient ways to validate your computerised systems.

### Target group

This Training is directed towards specialists and executives in the pharmaceutical industry entrusted with the planning, implementation and evaluation of the validation of computerised systems.

### Programme

Introduction – What the Participants Expect An open session capturing the expectations of the delegates.

#### Validation Overview

- What do we mean by Validation?
- Validation and Qualification
- Organising and Planning
- Good Documentation Practice
- Specification & Verification
- System Inventory
- System Description

#### Computerised Systems in Practice

- Definition of a Computerised System
- Scope of CSV (Computerised System Validation)
  - Laboratory Equipment
  - Automation / Process Control
  - Facility Management
  - GxP Applications GCP / GLP / GMP / GDP / GVP
  - IT / OT Infrastructure

#### **Regulatory Framework Overview**

- GxP: Regulated Good Practices
- EudraLex
  - Relevant Regulatory Framework for CSV Purposes
- US GxP Regulations
- Industry Standards

#### Annex 11 "Computerised Systems" to European GMP

- General principles
- Project phase
- Operation
- ERES requirements
- Annex 11 vs 21 CFR Part 11
- How can you implement it?

Workshop: Self Evaluation of CSV Regulatory Compliance

## The GAMP<sup>®</sup> 5 2nd Edition: A Risk-Based Approach to Compliant GxP Computerised Systems

- Applicability
- GAMP<sup>®</sup> 5 Key Principles
- Life Cycle / ÁSTM E2500-13 / V-Model
- Guide Structure
- Risk Management according to ICH Q9

#### Data Integrity Considerations for CSV

- What data are relevant?
- ALCOA+: Data Integrity criteria
- Paper vs hybrid vs electronic systems
- Data integrity requirements for CSV projects

#### Specifying Requirements

- Importance of Requirements Specification (RS)
- RS Scope and Contents
- Roles & Responsibilities
- Requirements Good Practices
- POLDAT

#### GAMP<sup>®</sup> 5 Software Categories

- System Structure
- Software Categories 1, 3, 4, 5
- End User Applications
- User View vs IT Perspective

# Workshop: Software Categorisation According to GAMP<sup>®</sup> 5

#### Functional Specifications - Building the Bridge

- Importance of URS FS linking
- FS Scope and Contents
- Roles & Responsibilities
- FS and FRA
- FS Good Practices

#### Workshop: Specifying Requirements - URS vs. FS

#### **Design Specification**

- CS Configuration Specification
- Detailed Specification
  - SDS Software Design Specification
  - SMS Software Module Specification
  - HDS Hardware Design Specification
  - NDS Network Design Specification

#### **Requirement Traceability**

- Regulatory expectation vs Good Engineering Practice
- Vertical Traceability / Horizontal Traceability
- How to trace? Embedded Traceability / Traceability Matrix

#### Design Review ... More Than a Milestone: A Process

- GAMP<sup>®</sup> 5 recommendation on 'Design Review'
- Functional & technical design review
- Scaleability of the review activities
- Design review: a life cycle supporting process
- Design review documentation
- From 'Design Review' to 'Periodic Evaluation'

#### Validation Planning

- CSV: A Life cycle approach embedded into the QMS
- Validation Master Plan
- Qualification & Validation on Project / System Level
  Qualification / Validation Plan
  - Supplier Assessment / Supplier Management
  - Risk Management
  - Documentation
  - Verification
  - Supporting Processes / System Release

🗘 Workshop: Validation Planning

#### Testing of GxP Systems

- Verification vs Validation Terminology
- Software testing
- Acceptance testing / Factory acceptance test (FAT) / Site acceptance test (SAT)
- Qualification testing
  - Installation qualification (IQ) / configuration testing
  - Operational qualification (OQ) / functional testing
  - Performance qualification (PQ) / requirements testing
- Good Testing Practice
- Management of test environment
- Verification of data migration activities
- Optimising the test strategy

#### Test Incident Management

- Test incident management overview
- What is a test incident?
- Test incident management process
- Taking a risk-based approach

Workshop: Test Incidents

## Change and Configuration Management During the Project Phase

- Regulatory requirements
- Configuration management
- Change management
- Responsibilities
- Recommendation
  - When to start?
  - Areas of concern

Workshop: Change Management

#### CSV – Specific Aspects: Automation

- System Overview / Specifications
- GAMP<sup>®</sup> 5 and risk analysis
- Findings & consequences

#### Validation Reporting and Handover to Operation

- Linking the Validation Plan and Report
- Key documents
- Validation summary reports
- Handover to Operation

#### CSV: Presentation to Inspectors

- Managing the inspection
- What inspectors want to see
- Warning Letters and 483s
- Inspection experiences
- Lessons to learn

#### Conference language

The official conference language will be English.

#### Presentations/Certificate

The presentations for this event will be available for you to download and print before and after the event. Please note that no printed materials will be handed out on site and that there will not be any opportunity to print the presentations on site. After the event, you will automatically receive your certificate of participation.

#### Organisation and Contact

ECA has entrusted Concept Heidelberg with the organisation of this event.

CONCEPT HEIDELBERG P.O. Box 10 17 64 69007 Heidelberg, Germany Phone +49(0)62 21/84 44-0 Fax +49(0)62 21/84 44 34 info@concept-heidelberg.de www.concept-heidelberg.de

#### For questions regarding content please contact:

Dr. Andreas Mangel (Operations Director) at +49(0)62 21/84 44 41, or at mangel@concept-heidelberg.de.

#### For questions regarding organisation please contact:

Sonja Nemec (Organisation Manager) at +49(0)62 21/84 44 24, or at nemec@concept-heidelberg.de.

### This could be of interest for you as well

## Would you like to train a larger group of participants in your company?

We offer practice-oriented GMP/GDP training courses on:

- Basic GMP
  - APIs (ICH Q7)
  - Medicinal Products
  - Biopharmaceuticals
- Quality Assurance
- Quality Control
- Validation/Qualification
- Regulatory Affairs
- Sterile Manufacturing
- IT / Computer Validation
- Good Distribution Practice (GDP)
- Data Integrity
- Packaging
- Medical Devices
- Technical Operations

You will find a time schedule for each training course at https://www.gmp-compliance.org/training/gmp-gdp-in-house-trainings.

### Speakers



Frank Behnisch CSL Behring GmbH, Germany

Frank is Senior Manager Project Engineering at CSL Behring GmbH in Marburg, Germany. He is member of the GAMP<sup>®</sup> D-A-CH "steering committee" and chairman of a GAMP<sup>®</sup> Special Interest Group (SIP) for "Small Systems".



Yves Samson, Kereon AG Basel, Switzerland

Yves joined the industry where he served as project and site engineer automation. In 2002, he founded Kereon AG. He is member of GAMP<sup>®</sup> Europe Steering Committee, co-founder and chairman of GAMP<sup>®</sup> Francophone and edited the French version of GAMP<sup>®</sup> 4 / 5. Membership: Active member of the GAMP working group 'IT Infrastructure Compliance and Control' / ECA "DI & IT Compliance Group".



Dr Robert Stephenson Rob Stephenson Consultancy, UK

Rob joined Pfizer Sandwich UK in 2000 as member of their Quality Unit operating within the IT group. As a long-standing member of the GAMP Europe Steering Committee Rob has contributed material to GAMP<sup>®</sup> 5 and the ISPE GAMP Good Practice Guide on "A Risk-Based Approach to Operation of GxP Computerized Systems" for which he was co-leader.

### Social Event



On Wednesday evening, you are cordially invited to a social event.

This is an excellent opportunity to share your experiences with colleagues from other companies in a relaxed atmosphere.

		Computerised System Validation – The GAMP® 5 Approach □ 7-9 May 2025		Company	Purchase Order Number, if applicable	Country			cellation or non-appearance. If you cannot take part, you have to inform us in revivery Policy: By registering for this event, I accept the processing of my Perso- writing. The cancellation fee will then be calculated according to the point of mal Data. Concept Heidelberg will only see my data for the processing of this order, in case you do not papear at the event writhout having informed us, you will have be even if you have not made the payrment yet. Only after we have received you are not page the full registration fee, even if you are entitled to participate in the con- flerence (receipt of payment will not be confirmed) [As of July 2022]. The privacy policy at http://www.gmp-compliance.org/privacy-policy). I note that I can ask for the modification, correction or deletion of my data at any time via the contact form on this website.	Dates of the Training Courses Computerised System Validation: Introduction to Risk Management Tuesday, 6 May 2025, 09.00 h – 18.00 h (Registration and coffee 08.30 h - 09.00 h) Computerised System Validation – The GAMP® 5 Approach Wednesday, 7 May 2025, 09.00 – 17.30 h (Registration and coffee 08.30 h - 09.00 h) Thursday, 8 May 2025, 08.30 h – 17.30 h Friday, 9 May 2025, 08.30 h – 17.30 h Friday, 9 May 2025, 08.30 h – 16.00 h All times mentioned are CEST. Venue Doubletree by Hilton Vienna Schönbrunn Schlossallee 8 1140 Vienna Austria Phone +43 (0) 1 89110 E-Mail: info@doubletree-schonbrunn.at Fees (per delegate plus VAT) Computerised System Validation: Introduction to Pick Management
Reservation Form (Please complete in full)	ECA Training Courses	Computerised System Validation: Introduction to Risk Management © 6 May 2025	Title, first name, surname	Department	Important: Please indicate your company's VAT ID Number	City ZIP Code	Phone / Fax	E-Mail (Please fill in)	CONCEPT HEIDELBERG reserves the right to change the materials, instructors, cellation or non-appearance. If you can or speakers without notice or to cancel an event. If the event must be cancellation, the variting. The cancellation fee will then registrants will be notified as soon as possible and will receive a full refund of time at which we receive your message. These paid. CONCEPT HEIDELBERGwill not be responsible for discount airfare pe- nalties or other costs incurred due to a cancellation. Terms of payment: Payable withhout deductions within 10 days after receipt of new have received your payment, yinvoice. Inportant: This is a binding registration and above fees are due in case of can- ference (receipt of payment will apply. Court of jurisdi	Introduction to Risk Management ECA Members € 990 APIC Members € 1,090 Non-ECA Members € 1,190 EU GMP Inspectorates € 595 The conference fee is payable in advance after receipt of invoice and includes conference documentation, lunch and all refreshments. VAT is reclaimable. Computerised System Validation – The GAMP® 5 Approach ECA Members € 2,090 APIC Members € 2,190 Non-ECA Members € 2,290 EU GMP Inspectorates € 1,145 The conference fee is payable in advance after receipt of invoice and includes conference documentation, social event including dinner on Wednesday, lunch on each day and all refreshments. VAT is reclaimable. Save money and book both courses: ECA Members € 2,690 APIC Members € 2,690
If the bill-to-address deviates from the specifica-	tions on the right, please hil out here:			CONCEPT HEIDELBERG	Fax +49 (0) 62 21/84 44 34	D-69007 Heidelberg GERMANY			General terms and conditions If you cannot attend the conference you have two options: 1. We are happy to welcome a substitute colleague at any time. 2. If you have to cancel entirely we must charge the following processing fees: Concellation until 4 weeks prior to the conference 20 %, - cancellation until 2 weeks prior to the conference 50 %, - cancellation until 2 weeks prior to the conference 20 %, - cancellation until 2 weeks prior to the conference 20 %, - cancellation until 2 weeks prior to the conference 20 %, - cancellation until 2 weeks prior to the conference 20 %, - cancellation until 2 weeks prior to the conference 20 %.	of invoice and includes conference documentation. 4